GAATTCCAGTGTGCTGGCTTCCTCACCTGCAGCACACACCACTCCTTTGGGCAAGGACCTGAGACCCTTGTGCTAACTC

						7]
[CYS]	ASP	CTC	TYR	ILE ATA	PRO CCC	CYS	CYS
ALA (LU AG	SER TCT	TYR TAC	ALA GCC	LYS	THR MET LEU CYS	LYS
ASP GAC	LYS G	LYS	SER	VAL GTT	GLII GAA	AL SEQUENCE THR MET LEU ACA ATG CTC	TRP
ASP	ASN LYS AAC AAG	ASN AAC	ARG CGT	LEU TTA	IS SER TCT	THR ACA	PRO
ASN AAC	LYS	THR [SER	ASP GAT	MINU TYR TAT	SIGN. TRP '	PHE
TRP	LYS AAG	GLY GGA	PHE	THR	I-TEF HIS CAT	GGG	ILE ATA
LYS AAA	ASN AAC	VAL GTG	PRO CCC	TYR	3LE N TYR TAC	TRP TGG	1 MET ATG
140 GLY GGC	120 ASN AAC	100 TRP TGG	80 LEU CTG	ASN AAT	TRP THR TYR HIS TYR SER	LEU TIG	CC
ALA GCA	PRO	THR ACG	THR ACT	ASP		LYS	AAAGO
ASP	GLU GAG	TRP TGG	LYS AAG	ARG CGA	CYS	PHE	AAGC!
LYS AAA	GLY	ILE	GLU GAG	CYS	TYR TAC	ILE	3ACC/
ASN AAC	ASP GAT	GLY GGA	LEU	PHE	THR ACC	ASN AAC	3AAG(
ARG AGA	GLY GGA	GLY	TYR TAT	ARG AGA	GLY GGA	TRP TGG	['AGA(
LYS AAG	TRP	ILE ATA	GLU GAG	ARG AGA	HIS	LEU TTA	;AACI
ILE	ASN AAC	LYS AAG	ILE	ALA	HIS CAT	ASP GAC	1GAAC
TYR TAT	GLU GAG	ARG CGG	GLU GAA	ARG AGG	ALA HIS	ARG AGG	AAGAGGCTCAATGGGCTGCAGAAGAACTAGAGAAGGACCAAGCAAAGCC
ILE	ALA GCA	ILE	ALA GCG	GLN CAA	LEU	GLN CAG	reec
130 GLU GAG	110 GLU GAA	90 GLY GGA	70 LYS AAG	50 TRP TGG	30 PHE TTC	10 THR ACC	rcaa:
VAL GTG	GLU GAA	ILE ATA	N SN	ASN AAC	ASP G&T	SER AGC	\GGC!
CYS	THR	TRP	GLII CAA	MET ATG	CYS	GLN CAG	AAG!

150
HIS LYS LEU LYS ALA ALA LEU CYS TYR THR ALA SER CYS GLN PRO TRP SER CYS SER GLE CAC ALA CYA AAG GER GET TET TAGE AGA GCT TCT TGC CAG CCC TGG TCA TGC AGT GCE

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LU AG	ILE	ILE	GCG YIĐ	SER TCA	CT	MET ATG	GGG XTS	HIS
GLY	TRP	CYS	ILE	SER	GLU GAA	ASP GAC	PRO	GLY GGA
330 ASP GAT	310 SER TCA	290 SER TCA	270 MET ATG	250 PRO CCA	230 GLY GGA	210 CYS TGT	190 GLN CAG	170 GLU GAA
TYR	ASN AAT	റ റ	ASN AAC	ດດ	THR	THR	CYS	CYS
	0 79	AA G	L	AA C		O #		
ASN I	RO	LY C	CYS TGT	PRO CCA	U Z	လက	GLN	VAL GTA
PRO CCC	SER	THR ACT	SER AGC	THR ACC	LEU	PRO CCC	CTT	GLU GAA
CTC	PRO CCA	GLU GAG	HIS CAT	CYS	THR	PHE	VAL GTG	ILE
PHE	ILE ATA	LEU TTA	PRO	GLN	эээ ХТэ	GLY GGA	ILE	ILE
ILE ATT	CYS	ILE	CTG	VAL GTG	ILE	ASN AAC	GLN CAG	ASN AAT
PRO CCA	GLN CAA	GCG ATS	ALA GCC	ILE	GLU GAA	PHE	CYS	ASN
VAL GTG	LYS. AAA	LYS	SER AGC	GLN CAG	GLU GAA	SER AGC	GLU	HIS
ALA GCA	LEU	LYS AAG	PHE	CYS	THR ACC	PHE	PRO	THR ACC
340 VAL GTC	320 ASP GAC	300 LYS AAA	280 SER AGC	260 GLU GAG	240 THR ACC	220 SER AGC	200 LEU TTG	180 CYS TGC
S7 MET ATG	LYS AAA	THR ACC	PHE	PRO	CYS	SER	GLU GAG	ASN
TOP 7	SER AGT	ILE	THR ACC	LEU CTA	GLY GGA	GLN	ALA GCC	CYS
TRANS THR ACT	PHE	CYS	SER	SER TCA	PRO CCA	CYS	PRO CCA	ASP GAT
FER ALA GCA	SER	GLU GAA	ALA GCA	ALA GCA	PHE	ALA GCC	GLU GAG	VAL GTG
SEQU PHE TTC	MET	SER TCA	CYS	PRO CCA	GLY GGA	PHE	CTG	осс АТБ
SEQUENCE PHE SER GLY TTC TCT GGG	ILE	SER	THR	ASP GAT	ASN	SER AGC	GLY YID	TYR TAC
GCG	LYS	GLY GGA	PHE	TEU TTG	TRP	CYS	THR ACC	TYR TAT
						<u>ה</u>]	

LEU ALA PHE ILE ILE TRP LEU ALA ARG ARG LEU LYS LYS GLY LYS LYS SER LYS ARG SER TTG GCA TTT ATC ATT TGG CTG GCA AGG AGA TTA AAA AAA GGC AAG AAA TCC AAG AGA AGT

GGCCGCCAGCACTGGAATTC ATTTCTTATAGTCAATGTTTCTTTTATCACGATATTATTAGTAAGAAAACATCACTGAAATGCTAGCTGCAAGTGACA GCCTCCCCACCTTCTTCAGCCACCTCTCTTTTTCAGTTGGCTGACTTCCACACCTAGCATCTCATGAGTGCCAAGCAA TGCTCAAGTTGAAAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAATTGGACCATCCTATTTAACTGGCTTCAG GAAGTGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCAGATCAAATTTCACGTCGTCTTCTGTATACT TCTCTTTGATGTCATATGGAAGAGTTAAAACAGGTGGAGAAATTCCTTGATTCACAATGAAATGCTCTCCTTTCCCCT GATTTCTACCCGACCAACAGTTCCTTCAGCTTCCATTTCGCCCCTCATTTATCCCTCAACCCCCAGCCCACAGGTGTT ${ t AAGGAGAAAAAAAAAAACCCTGCGCGTTTTTTAGTTTGGGGGGTTTTGCTGTTTCCTTTTATGAGACCCATTCCT$ TATACAGCTCAGCTTTTTGTCTTTTCTGAGGAGAAACAAATAAGACCATAAGGGAAAGGATTCATGTGGAATATAAAG $\mathtt{AATCCTTCCATGAAACGTTTTGTGTGGTGGCACCTCCTACGTCAAACATGAAGTGTGTTTCCTTCAGTGCATCTGGGAA}$ 370 372
ASN ASP PRO TYR OC
AAT GAC CCA TAT TAA ATCGCCCTTGGTGAAAGAAAATTCTTGGAATACTAAAAATCATGAGATCCTTTA

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ALA	ALA /	LYS	150 ARG CGA	LYS AAA	HIS	TGT	ALA GCC	ASP GAC	ASP GAT	ASN	TRP	LYS	140 GLY GGG	SER	ASP GAC	ARG CGA	GLU GAA	ARG AGG	LYS AAG
ILE	TYR TAT	ILE ATC	130 GLU	VAL GTG	CYS	ASP GAC	GLU GAG	LYS AAG	SER TCC	LYS AAG	LYS AAG	ASN AAC	120 ASN AAC	PRO	GLU GAG	999 719	ALA GCT	GLY	TRP
ASN AAC	GLU .	ALA GCA	110 GLU GAA	LYS AAA	THR ACT	LEU	THR ACT	LYS	ASN AAC	THR	CLY GGA	VAL GTG	100 TRP TGG	THR ACA	TRP TGG	MET ATG	LYS AAA	999 XTD	ILE
LYS	ARG AGG	ILE	90 GLY GGA	ILE ATA	TRP TGG	TYR TAC	TYR TAC	TYR TAT	PRO	SER	LYS AAA	PRO CCC	80 LEU TTG	THR ACA	ASN AAT	GLU	LEU	TYR TAT	GAG GAG
ILE	GAA	ARG AGA	70 LYS AAG	ASN AAC	GLN	ILE ATA	ALA	VAL	LEU TTA	ASP	ASN TYR THR ASP AAT TAC ACA GAT	TYR TAC		GLN CAA	CYS LYS GLN TGC AAG CAA		PHE	LYS AAG	ARG AGA
GCT	ASN AAT	TRP GLU ASN		ASN AAC	MET	PRO	LYS AAG	GLU GAA	SER	TYR	HIS	TYR TAC	40 THR ACT	TRP	MINUS S CYS TRP C TGT TGG	TERI HI: CA	N-Y THR ACT	GLY GGA	HIS CAT

1 MET VAL PHE PRO TRP ARG CYS GLU GLY THR TYR TRP GLY ATG GTG TTT CCA TGG AGA TGT GAG GGT ACT TAC TGG GGC

CYS ASP PHE LEU ILE HIS
TGT GAC TTC CTG ATA CAC

SIGNAL SEQUENCE SER ARG ASN ILE LEU LYS LEU TRP VAL TRP THR LEU LEU CYS TCG AGG AAC ATC CTG AAG CTG TGG GTC TGG ACA CTG CTC TGT

AGACTTGCAGAGAGACCCAGCAAGCC

GAATTCTCGAGCTCGACCACGCCCCTCCTTGTGCAAGAACTCTGAGCCCCAGGTGCAGGAGGCTGAGGCCTGCAGAG

				-	-	
PRO CCA	GLU GAG	HIS CAC	CYS	CTT	LEU TTG	VAL GTG
ILE ATC	LEU	PRO CCC	GLN CAA	эээ Хтэ	GLY GGA	VAL GTC
CYS TGC	LEU	LEU TTG	VAL GTG	THR ACT	ASN AAC	GLN CAG
GLN CAA	эээ ХТЭ	GLY	VAL GTC	ALA GCA	PHE	CYS
GAG GAG	THR	ASN AAC	GLN CAG	GLU GAA	SER AGC	GAG
GLU THR GAG ACA 写电性系统	ALA GCA	PHE	CYS	THR	PHE	PRO
320 ASN AAC	300 GLU GAA	280 SER AGC	260 GLU GAG	240 GLN CAG	220 GLN CAG	200 LEU TTG
ARG AGA	THR ACA	PHE	PRO	CYS	SER	GAG
ARG SER PH AGA AGT TI	GLN CAG	GLN CAG	LEU	GLY	LYS	ALA GCC
SER PHE AGT TTC	CYS	SER TCC	GLU GAG	ALA GCA	CYS	PRO
SER TCA	GLY GGA	LYS AAG	ALA GCC	SER TCT	ALA	GAG
LYS AAG	ALA GCA	CYS	PRO	GLY GGA	PHE	LEU
ILE ATC	SER	ALA GCT	GLU GAG	ASN	ASN	GLY
LYS AAA	GLY GGA	PHE	TEU TTG	TRP TGG	CYS	THR
GLU GAA	ASN	ASN AAC	GGT	SER TCA	SER	MET
GCT	TRP.	CYS	THR ACC	SER	GAG	ASP
330 ASP GAC	310 SER TCA	290 SER TCT	270 MET ATG	250 PRO CCA	230 GLY GGA	210 CYS TGC
TYR	SER TCT	GLU GAG	ASP GAC	GLU GAG	ARG AGA	ILE
ASN AAC	PRO CCA	GLY GCA	CYS	PRO CCA	GLU GAG	HIS
PRO	GLU GAG	ARG AGA	ILE ATC	ILE	LEU	PRO
						T

FIG.2B

THR ILE ASN ASN HIS THR CYS ACT ATC AAC AAT CAC ACG TGC

ILE

190 CYS ASP ALA GLY TYR TYR GLY PRO GLN TGT GAT GCA GGG TAT TAC GGG CCC CAG

CYS GLN TYR

160
LEU CYS TYR THR ALA SER CYS GLN PRO GLY SER CYS ASN GLY ARG GLY GLU CYS VAL GLU CTC TGC TAC ACA GCC TCT TGC CAG CCA GGG TCT TGC AAT GGC CGT GGA GAA TGT GTG GAA

340 STOP TRANSFER SEQUENCE 350

PHE ILE PRO VAL ALA VAL MET VAL THR ALA PHE SER GLY LEU ALA PHE LEU ILE TRP
TTC ATT CCT GTA GCC GTC ATG GTC ACC GCA TTC TCG GGG CTG GCA TTT CTC ATT TGG

teatcettegaaaggaaagccatgaagtetaaagacaaaacattggaaaataacgtcaagtcctcccgtgaaga $\mathsf{Fig.2c}$ LEU ALA ARG ARG LEU LYS LYS GLY LYS LYS SER GLN GLU ARG MET ASP ASP PRO TYR OP CTG GCA AGG CGG TTA AAA AAA GGC AAG AAA TCT CAA GAA AGG ATG GAT GAT CCA TAC TGA

TTCACTCTGCAAGGTTTATAACATGA'I'GAATTTAAATACAAAAAAAAAAAAAAAAA GATGATTATTAATAGTTAATGATAACACAACCCACTCTCTTGGAGCTGATGTTATGAAGACAACAGGTAGAAAAATTC GCTCCTCCTAATTTCCCCCTCGCTCATTCATCCCATTAACCCTATCCCATAATGTGTGTCTATACAGAGTAGTATTTTA GCTGTCCCCAACTCTTACCATGTCTTTTATAACTTGCTCCTTAACTTGCCCCAACCTGTAGGCTATCTCATTTTCTCGC TCTCCTGCATTGAGTTTTAGTTTTGAGTTTTCCCTTCTCTTTATTAGATCTCTGATGGTTCCTTGAAGTCAGTGTTCT TCATCTTTTCTGTGGAGGAACAAGCAAAAGTGTTACTGTAGAATATAAAGACAGCTGCTTTTACTCTTTCCTAACTCT CTGGGCTCAGGCTGGAGTGACACCCTTTTCTTTCCCTAACATCTTCTACTCAGATACCTAAAATTTAAGATTCAGGACA TCCCCATCTCCTTTTCCTAGGAGAATAATTCCACACACTGCACCCCATGATGGCCACCAAACATCAAAGAAGGGAAAA ACTCCTTCCGCATAGTACGTACCCTATGTAACATCGACAAAAATCTTTCATTTCCACCTCCAAAGAACAGTGCTCTA ${ t TGTTTCCTAGTTCAATTCAGCACAGAAGCTAATGCCAAACACAGTGAAAATATGATCCATGAGTAATTGGAAACTCAG$ ${ t TTTTACACGCAGGCATCTCCCACATTAGAGATGCAGTGTTTGCTCAACGAATCTGGAAGGATTTCTTCATGACCAACA$

FIG.3A

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	I N N H T C	INNHTCI	N
	I N N H T C	INNHTCIC	N
	I N N H T C	INNHTCICI	N
	I N N H T	INNHTCICD	N
	I N N H T C	I C D A	N / / / / / /
	I N N H T C	INNHTCICDAG	N
	I N N H T C N C D V G Y	I C D A	N
	I N N H T C N C D V G Y Y	I C D A	N / / / / / / / / / / / / / / /
	I N N H T C N C D V G Y Y G	I C D A	N / / / / / / / / / / / / / / / / / / /
	I N N H T C N C D V G Y Y	I C D A	N/////////////////////////////////////
	I N N H T C N C D V G Y Y G	I C D A	N'////////////////////////////////////
	I N N H T C N C D V G Y Y G P Q (I C D A	N'////////////////////////////////////
	I N N H T C N C D V G Y Y G P Q (I C D A	N'////////////////////////////////////
	I N N H T C N C D V G Y Y G P Q (I C D A	N/////////////////////////////////////
	I N N H T C N C D V G Y Y G P Q C Q L V	I C D A	N/////////////////////////////////////
	I N N H T C N C D V G Y Y G P Q C Q L V	I C D A	N/////////////////////////////////////
	I N N H T C N C D V G Y Y G P Q (I C D A	N/////////////////////////////////////
	I N N H T C N C D V G Y Y G P Q C Q L V I Q C	I C D A	N/////////////////////////////////////
	I N N H T C N C D V G Y Y G P Q C Q L V	I C D A	N / / / / / / / / / / / / / / / / / / /
	I N N H T C N C D V G Y Y G P Q C Q L V I Q C	I C D A	

HR V G T N K S G KEA EEAENWGD m z G GEPNNKKNKED Ш NNKKSKE VEIYIKRNKDAGKWNDDACHKL E R D S G K W N D D A C H K!R

MHR E N A R HAR OR ARREC X T R D N Y T D L V A I Q N K A E I E Y L E K T L P F S R S Y Y W I G I R K I G G I W T W KONYTD IONKREIEYLEN LECTIN DOMAIN S £ . 1 IRKIG X 3 X

mHR MV FPWR HAR MIFPWKCQSI \overline{C} Ш G TIYWGSRNILKLWVWTLLCCD LWNIFKLWGWIM SIGNAL SEQUENCE AHHGT IHHGTHCWTYHYSEKPMNW YCWTYHYSEKPMNW

À

MHR E A REC APELGIMDC THPFGNF IHPLGNFSFQSKCAFNCSEGREL COMPLEMENT BINDING REPEAT **COMPLEMENT BINDING REPEAT 2** SS <u>ا</u> AFSCSEG <u>ا</u> 0 TCGPFGNWSS <u>a</u> A S S

PHRE

QCEPL

SAPDLG

IMNGSHPLASFSFTSACTFICSEGTELIGKKK

EAP

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MDC1 HPLGNFSFOSKCAF

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LGTAE

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MHR L I W L A R R L K K G K K S K R S M N D P Y

IG.3B

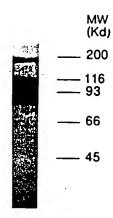


FIG.4A

T H K M KF K VVIL K

1 10 20 30

XTYHYSEKPMNWENARKFXKQNYTDLVAIQNKXXIEYL

FIG.4B

A A C ATG AAT TGG GAG AAT GC 3'

FIG.4C

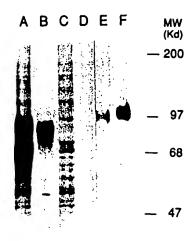


FIG. 5

